

Application No. 10/532,454

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

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Claims 1-10 (Cancelled).

11. (Currently Amended) An arrangement for projecting a color video image onto a projection surface, the image being composed of image points, said arrangement comprising:

at least one light source, which emits a light bundle and has a variable intensity;

a deflection device, which deflects the light bundle [[onto]] across the projection surface,

and

two-stage transformation optics for angular magnification of said light bundle, which are arranged between the deflection device and the projection surface and comprise two partial systems having positive refractive power, wherein an entrance pupil of the transformation optics is located in front of a first lens vertex of the transformation optics, and an exit pupil of the transformation optics is located between a lens vertex of the last lens of the transformation optics and the projection surface, and a stop is arranged substantially coplanar with the exit pupil.

12. (Currently Amended) The arrangement as claimed in claim 11, wherein the stop has a clear diameter, which corresponds to the product of a correction factor of between about 1 and about 1.5 and the result of a diameter of the incident light bundle, divided by [[an]] said angular magnification of the transformation optics.

13. (Previously Presented) The arrangement as claimed in claim 11, further comprising a housing and wherein the stop is part of the housing of the transformation optics.

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14. (Previously Presented) The arrangement as claimed in claim 12, further comprising a housing and wherein the stop is part of the housing of the transformation optics.

15. (Previously Presented) The arrangement as claimed in claim 11, wherein the stop is integrated into the surface of a wall and the transformation optics are positioned relative to said wall.

16. (Previously Presented) The arrangement as claimed in claim 12, wherein the stop is integrated into the surface of a wall and the transformation optics are positioned relative to said wall.

17. (Previously Presented) The arrangement as claimed in claim 15, wherein the wall comprises the projection surface.

18. (Previously Presented) The arrangement as claimed in claim 16, wherein the wall comprises the projection surface.

19. (Previously Presented) The arrangement as claimed in claim 11, wherein the transformation optics are corrected for imaging substantially free from distortion.

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20. (Currently Amended) An optical system for transforming the angle of an incident light bundle, said system comprising:

two-stage transformation optics, comprising two partial systems having positive refractive power, arranged following each other, as seen in the direction of light propagation;

wherein the ratio of the refractive powers of the partial systems determines the angular magnification of a deflected said incident light bundle; and

arrangement of lenses in the second partial system is selected such that, as seen in the direction of light propagation, an exit pupil of the transformation optics is located between a lens vertex of a last lens of the second partial system and the projection surface, and wherein the stop is arranged at the exit pupil.

21. (Previously Presented) The arrangement as claimed in claim 20, wherein the transformation optics are corrected for imaging substantially free from distortion.

22. (Currently Amended) An optical system for transforming the angle of an incident light bundle, said system comprising:

two-stage angle transformation optics, having a first exit pupil located within said transformation optics lenses of the optical system;

relay optics, comprising a first and a second partial system each having positive refractive power, arranged posterior to the angle transformation optics, as seen in the direction of light propagation;

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wherein the relay optics comprises an entrance pupil that is equal to said first exit pupil and a second exit pupil and the arrangement of lenses in the second partial system is selected such that, as seen in the direction of light propagation, the second exit pupil is located between the lens vertex of a last lens of the relay optics and a projection surface, and wherein a stop is arranged at the exit pupil of the relay optics.

23. (Previously Presented) The optical system as claimed in claim 22, wherein the two-stage angle transformation optics are corrected for imaging substantially free from distortion.